

**What is Claimed is:**

1. An abrasion-resistant jacket for a flexible cable with a cable core and a jacket made of an abrasion-resistant thermoplastic material surrounding the cable core, particularly for a drag chain cable or a robot cable, wherein the jacket is made of an inner extruded plastic layer (2) and an outer jacket layer (4), between the inner plastic layer (2) and the outer jacket layer (4) a layer (3) made of monofilaments of a chemically and thermally stable material is provided with a visual coverage of 40 to 70%, and the outer jacket layer (4) is applied by pressure extrusion, such that the spaces in the layer (3) are nearly filled by the material of the outer jacket layer, and the layer (3) adheres to the inner sheath layer (2).

2. An abrasion-resistant jacket as claimed in claim 1, wherein the layer (3) comprises a braid of monofilaments.

3. An abrasion-resistant jacket as claimed in claim 1, wherein the layer (3) comprises at least one layer of monofilaments stranded over the cable core (1).

4. An abrasion-resistant jacket as claimed in claim 1, wherein the layer (3) comprises monofilaments made of polyamide, preferably polyamide 6.

5. An abrasion-resistant jacket as claimed in claim 1, wherein the layer (3) comprises monofilaments made of polyethersulfone.

6. An abrasion-resistant jacket as claimed in claim 1, for a cable with a metal braided shield, further comprising a separation layer of a non-woven material or a plastic foil (6) between the braided shield (5) and the layer (3).

7. An abrasion-resistant jacket as claimed in claim 6, wherein the non-woven material or the plastic foil (6) is coated with a powder that swells in the presence of moisture.

8. An abrasion-resistant jacket as claimed in claim 1, for a cable with a plurality of wires, wherein the wires are embedded in an inner sheath.

9. An abrasion-resistant jacket as claimed claim 1, wherein the visual coverage of the layer (3) is between 50 and 65%.

10. An abrasion-resistant jacket as claimed in claim 1, wherein the diameter of the monofilaments is between 0.15 and 0.25 mm.

11. An abrasion-resistant jacket as claimed in claim 1, wherein the jacket is made of polyurethane, polyvinylchloride or a thermoplastic elastomer.

12. An abrasion-resistant jacket as claimed in claim 1, wherein the monofilaments contain a fireproofing agent.